Customised heating solution for industrial process

Specific applications designed to meet full thermal requirements of your production processes. AMARC is specialised in the production of sheathed electrical heating elements. AMARC designs and manufactures Electric Heat Exchangers and Duct Heaters of all types and dimensions. AMARC products are highly reliable, easy to install on-site and have an excellent price-performance ratio.

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AMARC products are developed and manufactured in accordance with European Directives.

CSA-IQNET:
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ATEX-EX 94/9/EC:
EC Directive regulating equipment and protective systems intended for use in potentially explosive atmospheres. ATEX certification approved for all types of gas, dust and mines to suit zone 1, zone 2, zone 21 and zone 22. Protection methods available Ex d/Ex e for all temperature classes and for ambient temperature range -40°C – +80°C.

PED 97/23/EC:

TYPES OF INDUSTRIES SERVED

- Oil & Gas
- Chemical
- Petrochemical
- Energy
- Photovoltaic
col
- Research
centre
- Medical
- Gas
technology
- Glass
tube
industry
- Food
industry
- Marine
- Power
- generation
- Steel
industry
- Processing
plants

PRODUCT APPLICATIONS

- Fuel
gas
- Natural
gas
- Water
- Crude
crude
- Gas
- Hydrocarbon
crudes
- Fuel
crudes
- Solvents
- Molten
salt
- HVAC

UNI EN ISO 9001
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ASME -“U” ASME VIII div 1 and div 2 - AMARC “U” Stemp.
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TYPES OF INDUSTRIES SERVED

- Oil & Gas
- Chemical
- Petrochemical
- Energy
- Photonics/cell/col
- Research centre
- Medical
- Gas technology
- Glass fibre industry
- Food industry
- Marine
- Power generation
- Steel industry
- Processng plants

PRODUCT APPLICATIONS

- Fuel gas
- Natural gas
- Water
- Crude oil
- Gas
- Hydrocarbon liquids
- Fuel oil
- Solvent
- Molten salt
- HVAC

AMARC srl
via Artigiani 37
23874 Montevecchia (Lecco)
Tel +39 039 928 6007
Fax +39 039 928 6092
amarc@amarc.com
www.amarc.com

www.amarc.com
**INDUSTRIAL PROCESS**

- **Thermal and electrical, mechanical and structural design**
  - Thermal and electrical and mechanical design for the AMARC engineering team. Suitable for high or low pressure drops.
  - Thermal, electrical and mechanical design are developed in-house by the AMARC engineering team.

- **Construction and assembly of mechanical and electrical components**
  - All welders are qualified according to ASME and EN procedures.
  - All welders are qualified according to ASME and EN procedures.

- **Startup and commissioning**
  - Over temperature and over pressure cut-out system.
  - Over temperature and over pressure cut-out system.

**THERMOREGULATION SKIDS**

- These units are used in heat transfer processes.
- These units are used in heat transfer processes.

**Electric Control Panels**

- Suitable for very high or low pressure drops.
- Suitable for very high or low pressure drops.

**APPLICATIONS:**

- Water/Hydrocarbons/Crude oil/Steam
- Fuel gas/Natural gas/Nitrogen/Hydrogen/Fuel oil/
- Water/Hydrocarbons/Crude oil/Steam

**MAIN OPTIONS AVAILABLE:**

- Electric process heater (Exchanger or Dust Heater)
- Electric process heater (Exchanger or Dust Heater)

**APPLICATIONS:**

- Fuel gas/Natural gas/Nitrogen/Hydrogen/Fuel oil/
- Water/Hydrocarbons/Crude oil/Steam

**TECHNICAL CHARACTERISTICS:**

- Ex d/Ex e version.
- Ex d/Ex e version.

**ELECTRIC HEAT EXCHANGERS**

- AMARC Electric Heat Exchangers can be designed for high power up to 5.6 MW and high pressure.
- AMARC Electric Heat Exchangers can be designed for high power up to 5.6 MW and high pressure.

**APPLICATIONS:**

- Fuel gas/Natural gas/Nitrogen/Hydrogen/Fuel oil/
- Water/Hydrocarbons/Crude oil/Steam

**TECHNICAL CHARACTERISTICS:**

- ATEX certification approved for all type of gas, oil, steam, corrosive liquids.
- ATEX certification approved for all type of gas, oil, steam, corrosive liquids.

**EXPLOSION PROOF CONTROL PANEL**

- ATEX approved for Zone 1, groups IIB 2G, 2B, 1 ME and with protection level Ex d IIB + H2
- ATEX approved for Zone 1, groups IIB 2G, 2B, 1 ME and with protection level Ex d IIB + H2

**IMMERSION HEATERS**

- ATEX approved for Zone 1, groups IIB 2G, 2B, 1 ME and with protection level Ex d IIB + H2
- ATEX approved for Zone 1, groups IIB 2G, 2B, 1 ME and with protection level Ex d IIB + H2

**CONTROL SYSTEMS**

- ATEX approved for Zone 1, groups IIB 2G, 2B, 1 ME and with protection level Ex d IIB + H2
- ATEX approved for Zone 1, groups IIB 2G, 2B, 1 ME and with protection level Ex d IIB + H2

**GENERAL TECHNICAL CHARACTERISTICS**

- Automated system with PLC
- Automated system with PLC

**TECHNICAL CHARACTERISTICS:**

- ATEX approved for Zone 1, groups IIB 2G, 2B, 1 ME and with protection level Ex d IIB + H2
- ATEX approved for Zone 1, groups IIB 2G, 2B, 1 ME and with protection level Ex d IIB + H2

**ELECTRIC DUCT HEATERS**

- Made with Internal Thermostat or ON/OFF controlled
- Made with Internal Thermostat or ON/OFF controlled

**APPLICATIONS:**

- Air units/ HVAC/Drying ovens/Process fluids
- Air units/ HVAC/Drying ovens/Process fluids

**TECHNICAL CHARACTERISTICS:**

- ATEX approved for Zone 1, groups IIB 2G, 2B, 1 ME and with protection level Ex d IIB + H2
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**INDUSTRIAL PROCESS**

Thermal and electrical, mechanical, and structural design

Thermal, electrical, and mechanical design for the desired output power and high pressure.

**THERMOREGULATION SKIDS**

These units are used in heat exchanger processes. Complete with valves, pumps, and vessels. When requested, they can be supplied with Electric Control Panels with PID controllers and flowmeter units. Specifically designed to meet process requirements. Also available in Ex d/e version.

**Main Options Available:**

- Electric process heater (Exchanger or Duct Heater)
- Valves: Temperature and pressure measurement
- Control Panel: Harpoon structure
- Prevented "turn key solution"
- Over temperature and over pressure cut-out system
- Start-up and commissioning are available

**Applications:**

- Fuel gas/Natural gas/Nitrogen/Hydrogen/Fuel oil/Steam/Water/Heat transfer
- Nitrogen
- Hydrogen
- Fuel oil/Steam
- Water/Heat transfer
- Air conditioning

**Electric Heat Exchangers**

Heat Exchangers for any type of fluid: air, liquids, steam, corrosive liquids. Fluid design in most of the technical processes. AMARC Heat Exchangers can be designed to meet the process requirements. Also available in high pressure. The Heat Exchangers are designed and engineered according to specific customer requests. Start-up and commissioning are available.

**Technical Characteristics:**

- Ex d/Ex e version
- Also available in
- Electric Control Panels with PID thermoregulators for precision control.
- Heat Exchangers and Duct Heaters are supplied in Ex d/Ex e version.
- Process fluids: Air units/HVAC/Drying ovens/Process fluids
- ATEX approved for Zone 1 group II 2G, Zone 21 group II 2D, and with protection level Ex d IIC and Exe IIC
- Ambient temperature -60°C +60°C
- Temperature class T3 – T6
- IP 66 Termination box for safe and classified area
- ATEX certified T3 ÷ T6, Ex d IIB + H2
- Pressurized Control Panels for hazardous area are available
- Internal Thyristor or ON/OFF controlled
- Electrical protection up to IP66
- ATEX certified
- Ex d IIB + H2
- Over temperature and over pressure cut-out system
- Replaceable elements
- Ambient temperature -60°C +60°C
- Temperature class T1– T6
- ATEX "Un" or other on request
- Ambient temperature 40°C ±6°C
- Ambient temperature 40°C ±6°C
- ATEX certified
- ATEX certified
- Ambient temperature ±6°C
- ATEX approved for Zone 1, Group I, II 1 G, II 1 G, II 2D
- Ambient temperature ±6°C
- Ambient temperature ±6°C
- Ambient temperature -60°C +60°C
- Temperature class T1– T6
- Protection mode available Ex d/ Ex e for all temperature classes and for range of ambient temperature 40°C ±6°C
- Termination box available in carbon steel and stainless steel (AISI 304L or AISI 316L)
- Temperature class T1– T6
- Code design PED 97/23/EC
- AMARC Heats Exchanger can be designed for high power up to 5.6 MW for single unit and high pressure
- Over temperature and over pressure cut-out system
- Applications:

  - Fuel gas/Natural gas/Nitrogen/Hydrogen/Fuel oil/Steam/Water/Heat transfer
  - Process fluids
  - HVAC/Drying ovens/Process fluids

**Electric Control Panels**

AMARC Electric Control Panels can be used for a wide range of processes. Start-up and commissioning are available.

**Electrical Duct Heaters**

AMARC Electric Duct Heaters can be used for a wide range of processes. Start-up and commissioning are available.

**Immersion Heaters**

AMARC Immersion Heaters are supplied with Electrical Control Panel using Thermostat and PID thermoregulators for precision control.

**General Technical Characteristics:**

- Automated system with PLC
- Touch screen panel to control the equipment
- Cooling system with integrated air conditioning
- Interface connection with different protocols and languages
- Technical Electric test
- Noise level test
- Harmonic analysis and interference test

**Explosion Proof Control Panel**

Designed to work directly on field (Classified Area Zone 1 and 2). Installed near the heater or mounted on the same structure skid.

- ATEX certified T3 – T6, Ex d IIC + H2
- Electrical protection up to IP65
- Made with internal Thermostat or ON/OFF controlled remote control directly by DCS or locally by its own thermocontroller
- Pressurized Control Panels for hazardous area are available

**Control Systems**

- Immersion Heaters
- Electrical Duct Heaters
- Electric Heat Exchangers
- Electric Control Panels
**INDUSTRIAL PROCESS**

**Thermal and electrical, mechanical and structural design**

- Initial analysis
- Study of customer requirements
- Design feasibility
- Final design
- Construction and assembly of mechanical and structural elements
- Final mechanical and electrical drawings
- Quality control
- On-site testing
- Quality control verification
- Document submission
- After sales assistance

**Construction and assembly of mechanical and electrical components**

- Initial assembly
- Final assembly
- Quality control
- Final testing
- Document submission

**Thermoblockregulation Skids**

- Initial analysis
- Study of customer requirements
- Design feasibility
- Final design
- Construction and assembly of mechanical elements
- Final mechanical and electrical drawings
- Quality control
- On-site testing
- Quality control verification
- Document submission
- After sales assistance

**Applications:**
- Water/Hydrocarbons/Crude oil
- Steam
- Corrosive liquids

**Thermal and electrical components**

- After sales assistance
- Thermocontrol and electrical components
- Construction and assembly of mechanical and structural elements
- Final mechanical and electrical drawings
- Quality control
- On-site testing
- Quality control verification
- Document submission
- After sales assistance

**Thermal and electrical, mechanical and structural design**

- Initial analysis
- Study of customer requirements
- Design feasibility
- Final design
- Construction and assembly of mechanical and structural elements
- Final mechanical and electrical drawings
- Quality control
- On-site testing
- Quality control verification
- Document submission
- After sales assistance

**Applications:**
- Water/Hydrocarbons/Crude oil
- Steam
- Corrosive liquids

**After sales assistance**

AMARC assistance includes the repair of its products and spare parts and the supply of on-site training, maintenance, and after-sales services, in accordance with AMARC’s and ATEX procedures.

**Thermoblockregulation Skids**

- Initial analysis
- Study of customer requirements
- Design feasibility
- Final design
- Construction and assembly of mechanical and structural elements
- Final mechanical and electrical drawings
- Quality control
- On-site testing
- Quality control verification
- Document submission

**Applications:**
- Water/Hydrocarbons/Crude oil
- Steam
- Corrosive liquids

**Electric heat exchangers**

For any type of fluid: air, oils, gases, oil, steam, corrosive liquids. Fluid dynamic design to meet customer requirements. AMARC’s heat exchangers can be designed for high power up to 5.6 MW for single unit and high pressure. The heat exchangers are designed and engineered according to ASME and PED requirements. Start-up and commissioning are available.

**Technical characteristics:**
- IP 66 heat exchanger box for safe and classified area
- ATEX certification approved for all type of gas, oil, and paints to suit zone 1, zone 2, zone 21 and zone 22
- Protection mode available: Ex d/Ex e for all temperature class and for range of ambient temperature: -40°C +60°C
- Termination box available in carbon steel and stainless steel (AISI 304L or AISI 316L)
- Temperature class: T1–T6
- Code design: PED 97/23/EC
- ASME U or other on request
- Ambient temperature: 40°C +60°C
- Anti-condensation Heater can be fitted in termination box on request
- AMARC heat exchangers can be designed for high power up to 5.6 MW for single unit and high-pressure start-up and commissioning are available.

**Applications:**
- Fuel gas/Natural gas/Hydrogen/Fuel oil/Water/Hydrocarbons: Code 6/Steam

**Electric heat exchangers**

AMARC Electric heat exchangers can be used for a wide range of processes. Start-up and commissioning are available.

**Technical characteristics:**
- IP 66 heat exchanger box for safe and classified area
- ATEX certification approved for all type of gas, oil, and paints to suit zone 1, zone 2, zone 21 and zone 22
- Protection mode available: Ex d/Ex e for all temperature class and for range of ambient temperature: 40°C +60°C
- Termination box available in carbon steel and stainless steel (AISI 304L or AISI 316L)
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- Code design: PED 97/23/EC
- ASME U or other on request
- Ambient temperature: 40°C +60°C
- Anti-condensation heater can be fitted in termination box on request
- AMARC heat exchangers can be designed for high power up to 5.6 MW for single unit and high-pressure start-up and commissioning are available.

**Applications:**
- Fuel gas/Natural gas/Hydrogen/Fuel oil/Water/Hydrocarbons: Code 6/Steam

**Control systems**

AMARC Electric heaters are supplied with Electrical Control Panels and PED thermoregulators for precision control. Additional instrumentation for other thermal and non-thermal control requirements can be incorporated. Thermal and electrical components

**Technical characteristics:**
- IP 66 heat exchanger box for safe and classified area
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**Applications:**
- Fuel gas/Natural gas/Hydrogen/Fuel oil/Water/Hydrocarbons: Code 6/Steam

**Electric duct heaters**

AMARC Electric duct heaters are supplied with Electrical Control Panels using Thyristor and PID thermoregulators for precision control. Additional instrumentation for other thermal and non-thermal control requirements can be incorporated. Technical and electrical components

**Technical characteristics:**
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- ATEX certification approved for all type of gas, oil, and paints to suit zone 1, zone 2, zone 21 and zone 22
- Protection mode available: Ex d/Ex e for all temperature class and for range of ambient temperature: -40°C +60°C
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- ASME U or other on request
- Ambient temperature: 40°C +60°C
- Anti-condensation heater can be fitted in termination box on request
- AMARC heat exchangers can be designed for high power up to 5.6 MW for single unit and high-pressure start-up and commissioning are available.

**Applications:**
- Fuel gas/Natural gas/Hydrogen/Fuel oil/Water/Hydrocarbons: Code 6/Steam

**Immersion heaters**

AMARC Electric heaters can be used for a wide range of processes. Start-up and commissioning are available.

**Technical characteristics:**
- IP 66 heat exchanger box for safe and classified area
- ATEX certification approved for all type of gas, oil, and paints to suit zone 1, zone 2, zone 21 and zone 22
- Protection mode available: Ex d/Ex e for all temperature class and for range of ambient temperature: -40°C +60°C
- Termination box available in carbon steel and stainless steel (AISI 304L or AISI 316L)
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Supported by: StudioGrafico, Caudio, Dongo

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AMARC srl
Via Artigiani 37
IT - 23874 Montevecchia (Lecco)
Tel +39 039-57805.1
Fax +39 039-57805.24
mail@amarc.com
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